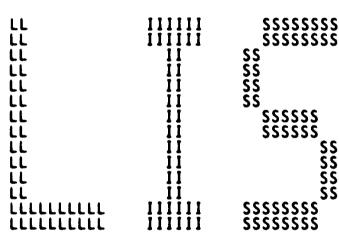
LLL		NNN	NNN	KKK	KKK	EEEEEEEEEEEEE		RRRRRRR
LLL	111111111	NNN	NNN	KKK	KKK	EEEEEEEEEEEEE	RRRRR	RRRRRRR
LLL	11111111	NNN	NNN	KKK	KKK	EEEEEEEEEEEE		RRRRRRR
iii	111	NNN	NNN	KKK	KKK	EEE	RRR	RRR
iii	111	NNN						
	111		NNN	KKK	KKK	EEE	RRR	RRR
LLL	111	NNN	NNN	KKK	KKK	EEE	RRR	RRR
LLL	111	NNNNNN	NNN	KKK	KKK	ĒĒĒ	RRR	RRR
LLL	iii	NNNNNN		KKK	KKK	ĒĒĒ	RRR	RRR
iii	111	NNNNN						
LLL	111			KKK	KKK	EEE	RRR	RRR
LLL	111	NNN I	NNN NNN	KKKKKKK	KK	EEEEEEEEEE	RRRRR	RRRRRRR
LLL	111	NNN I	NNN NNN	KKKKKKK	KK	EEEEEEEEEE	RRRRR	RRRRRRR
LLL	ĪĪĪ		NNN NNN	KKKKKKK		EEEEEEEEEE		RRRRRRR
LLL	111	NNN	NNNNNN	KKK	KKK	EEE	RRR	RRR
LLL	ĪĪĪ	NNN	NNNNNN	KKK	KKK	ĒĒĒ	RRR	RRR
iii	ĬĬĬ	NNN	NNNNNN	KKK	ŔŔŔ	ĔĔĔ	RRR	RRR
iii	111					CCC		
LLL	111	NNN	NNN	KKK	KKK	EEE	RRR	RRR
LLL	111	NNN	NNN	KKK	KKK	EEE	RRR	RRR
LLL	111	NNN	NNN	KKK	KKK	EEE	RRR	RRR
1111111111111	111111111	NNN	NNN	KKK	KKK	ĔĔĔEEEEEEEEEE	RRR	RRR
	11111111	NNN	NNN	ŘŘŘ		EEEEEEEEEEEE		
	* * * * * * * * * *				KKK		RRR	RRR
		NNN	NNN	KKK	KKK	EEEEEEEEEEEE	RRR	RRR

THE THEFT THEFTHEFTHEFTHEFT HITTEL

SY LNN LNN LNN LNN LNN LNN LNN LNN

L	IN IN IN IN IN IN IN IN IN IN IN IN	INN NN	KK K	KK KK KK KK KK KK KK KK KK	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	RRRI RR RR RR RRRI	RRRR RRRR RR RR RR RRRR RRRR RR RR RR R	0000 0000 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00 00 00 00	\$	HH HH HH HH HH HH HH HH HH HH HH HH		RRRI RR RR RR RR	RRRRR RRRRR RR RR RR RRRRR RRRRR RR RR	••••
---	--	-----------	------	--	--	--------------------------------	---	--	--	--	--	--	------------------------------	--	------



LN VO

SSSSSSS	нн	НН	RRRRRRI
SSSSSSSS	НH	НН	RRRRRRR
	HH	HH	RR
SSSSS	НННННН	ннн	RRRRRR
SSSSS	НННННН		RRRRRR

(1)

VAX-11 Bliss-32 V4.0-742

CLINKER.SRCJLNKPROSHR.B32:2

```
0058
                                               sections in shareable images. The minimum image file VBN for the symbol table is now 2, instead of 3.
 59
                 0059
 60
                 0060
                                               Why? Consider the case of a shareable image with
                 0061
                                               nothing BUT a demand zero image section...
 61
 62
63
                 0062
                                     V03-005 ADE0002
                                               ADE0002 Alan D. Eldridge 10-Jul-1984 Fix null arguments passed in SIGNAL due to editting errors.
                 0064
 64
 65
                 0065
                                               ADE0001 Alan D. Eldridge 26-Feb-1984 Don't erase CLU$L_GSMATCH. It is no longer re-used as something else in pass 2, and it is referenced to correctly perform the GSMATCH checking in pass one.
                 0066
0067
 66
67
                                     V03-004 ADE0001
 68
                 0068
                 0069
0070
 69
 70
 71
                 0071
                                     V03-003 JWT0152
                                                                    Jim Teague
                                                                                                    8-feb-1984
 72737475
                 0072
                                               Long names for global image section descriptors.
                 0074
                                     V03-002 JWT0111
                                                                                                   14-Apr-1983
                                                                    Jim Teaque
                 0075
                                               Don't pull in shareable images that are in global
 76
77
                 0076
                                               isds unless they're based.
                 0077
 78
79
                 0078
                                     V03-001 JWT0044
                                                                                                  30-Jul-1982
                                                                    Jim Teaque
                 0079
                                               Open file performance boost.
 80
                 0080
 81
                 0081
                 0082
 82
 83
 84
                 0084
                             TABLE OF CONTENTS:
 85
                 0085
 86
                 0086
                           forward routine
 87
                 0087
                                                                                        ! READS THE NEXT HEADER BLOCK OF IMAGE
                                readnextblock:
 88
                 8800
 89
                 0089
 90
                 0030
                             INCLUDE FILES:
 91
92
93
94
95
96
97
                 0091
                          library 'LIBL32';
require 'PREFIX';
library 'DATBAS';
require 'ISGENC';
                 0092
                                                                                          VMS SYSTEM STRUCTURE DEFINITIONS
                 0093
                                                                                          USEFUL GENERAL MACROS
                 0208
                                                                                          INTERNAL DATA BASE DEFINITIONS
                 0209
                                                                                        ! IMAGE SECTION PARAMETERS
                 0593
                 0594
 98
                 0595
                             MACROS:
                0596
0597
 99
100
                                     NONE
101
                 0598
102
                 0599
                             EQUATED SYMBOLS:
                 0600
104
                 0601
                                     NONE
                 0602
105
106
                             EXTERNAL REFERENCES:
107
                 0604
                 0605
108
                 0606
0607
109
                        1 external routine
110
                                ink$allobik
                                                         : novalue,
                                                                                           DYNAMIC MEMORY ALLOCATOR
                 8000
111
                                Ink$allocluster,
                                                                                           ALLOCATE CLUSTER DESCRIPTOR
112
                 0609
                                lnk$closefile
                                                                                           CLOSE CURRENT INPUT FILE
                                                         : novalue,
                 0610
                                lnk$pointobj
                                                                                           POINTS TO NEW PLACE IN FILE
                                                         : novalue,
114
                 0611
                                InkSaddimage,
                                                                                          PROCESS SHAREABLE IMAGE
```

```
16-Sep-1984 00:30:18
14-Sep-1984 12:40:34
LNK_PROCSHRIM
                                                                                                                                             VAX-11 Bliss-32 V4.0-742 
[LINKER.SRC]LNKPROSHR.B32;2
                                                                                                                                                                                                        Page
V04=000
                         0612
0613
                                             lnk$procsobj;
                                                                                                                    ! PROCESSES OBJECT MODULES (I.E. THE GST)
    116
                                     external literal lins_badimghdr, lins_basshrbel, lins_confbasadr, lins_idmismch, lins_imgbased, lins_noimgfil,
                         BAD IMAGE HEADER ERROR MESSAGE
BASED SHAREABLE IMAGE BELOW BASE =
CONFLICTING BASE ADDRESSES FOR SHR IMGS
GSMATCH MISMATCH WITH SHR IMG STB LIBRARY
    118901234567890123456789014423
                                                                                                                       ATTEMPT TO RE-BASE A NON-PIC IMAGE NO IMAGE FILE CREATED SHAREABLE IMAGE IS NON-PIC RELINK DUE TO COPYALWAYS SECTION
                                            lins_nonpicimg,
lins_relink,
lins_readerr;
                                                                                                                       READ ERROR
                                      external
                                             lnk$gl_shrclstrs,
                                                                                                                       COUNT OF NUMBER OF SHAREABLE IMAGE CLUSTERS (PIC AND NON-P
                                             lnk$al_rab
                                                                             : block [, byte],
                                                                                                                       RAB FOR OPEN IMAGE FILE
                                             ink$gw_nisects
                                                                             : word.
                                                                                                                       IMAGE SECTION ACCUMULATOR
                                                                             : word.
                                             lnk$gw_shriscts
                                                                                                                       NUMBER OF SHAREABLE IMAGE ISECTS
                                                                            : byte,
: ref block [, byte],
: ref block [, byte],
                                             lnk$gb_pass
                                                                                                                       CURRENT PASS
                                            lnk$gl_curfil
lnk$gl_curclu
lnk$gl_defclu
lnk$gl_lastclu
lnk$gl_ctlmsk
                                                                                                                       CURRENT FILE POINTER
                                                                                                                       CURRENT CLUSTER DESCRIPTOR
                                                                                                                       DEFAULT_CLUSTER DESCRIPTOR POINTER TO LAST CLUSTER DESCRIPTOR
                                                                             : block [, byte],
                                                                             : ref block [, byte],
                                                                             : block [, byte],
                                                                                                                       CONTROL FLAGS
                                             lnk$gl_objrecs ;
                                                                                                                       COUNT OF OBJECT RECORDS
                                         MODULE OWN STORAGE:
                         0640
                         0641
0642
0643
    144
                                      global
                                            lnk$gl_gsbufdsc
lnk$gl_imgrecs;
                                                                                                                    ! BUFFER DESCRIPTOR FOR COPIED GLOBAL SECTIONS
                                                                             : vector [3],
   146
147
148
149
150
151
152
153
                                                                                                                    ! COUNT OF IMAGE RECORDS
                         0644 1
0645 1
0646 1
0647 1
0648 1
                                      OWN
                                                                             : vector [4, byte]
initial (%ascii '_000'),!
                                            curisdseq
                                                                                                                       SUFFIX TO SCLUSTER NAME GIVING GBL ISD NAME
```

hdrblkcnt,

headerblock:

0649

0651

154

NUMBER REMAINING HEADER BLOCKS

CURRENT HEADER VBN

Page

(2)

0707

0708

gstvbn

iatva,

saverecount,

maxisdvbn:

```
16-Sep-1984 00:30:18
14-Sep-1984 12:40:34
0652 1 global routine lnk$procshrim (modrfa) = 0653 1 !++
     1 ! FUNCTIONAL DESCRIPTION:
                                  THIS ROUTINE IS CALLED TO PROCESS SHAREABLE IMAGES ON PASS
                 ONE OF THE LINK. IT READS AND VALIDATES EVERY BLOCK OF THE IMAGE HEADER
                 BUILDING THE LIST OF IMAGE SECTION DESCRIPTORS. AFTER COMPLETING THE HEADER
                 IT SETS THE RAB POINTING TO THE SYMBOL TABLE PART OF THE IMAGE FILE AND
                 CALLS LNKSPROCSOBY TO DO THE PASS ONE OBJECT MODULE PROCESSING
                 OF THE SYMBOL TABLE.
                                  THE SYMBOL TABLE OF A SHAREABLE IMAGE CONTAINS ALL THE UNIVERSAL
                 SYMBOLS DEFINED FOR THE IMAGE AND IS IN THE OBJECT MODULE FORMAT.
          FORMAL PARAMETERS:
                 MODRFA IS A POINTER TO THE 6 BYTE RFA OF THE SHAREABLE IMAGE IF
                 IT IS IN A LIBRARY. IF NOT A LIBRARY SHAREABLE IMAGE THE ARGUMENT
                 DOES NOT EXIST.
          IMPLICIT INPUTS:
                 SEE ABOVE EXTERNAL DECLARATIONS.
IN ADDITION THE FILE CONTAINING THE IMAGE IS ALREADY OPEN
                 FOR BLOCK READ OPERATIONS.
          IMPLICIT OUTPUTS:
                 SEE ABOVE GLOBAL DECLARATIONS.
                 IN ADDITION ALL IMAGE SECTIONS FOUND IN THIS SHAREABLE IMAGE
                 ARE APPENDED TO THE LIST AND THE GST HAS BEEN PROCESSED AS AN OBJECT
                 MODULE. THAT IS ALL UNIVERSAL SYMBOLS ARE IN THE LINKER SYMBOL TABLE.
          ROUTINE VALUE:
                 RETURNS VALUE TRUE IF SUCCESSFULLY PROCESSED. ELSE FALSE
          SIDE EFFECTS:
                 THE ROUTINE DOES NOT RETURN IF A FATAL ERROR IS DETECTED.
        begin
        builtin
                 actualcount :
                                                            ! GETS COUNT OF ARGUMENTS
        local
                 nxtisdoff,
                                                              OFFSET TO NEXT ISD
                                                              OFFSET IN FILE TO FIRST HEADER BLOCK
                 blockoffset.
                                                              MAJOR AND MINOR ID FROM HEADER
                 isectident,
                                                              VPG OF FIRST ISECT
                 firstisdypa,
                                                              POINTER TO SYMBOL TABLE DESCRIPTOR
                                  : ref block [, byte],
                 symdbadatdsc
                                                              NUMBER OF RECORDS IN SYMBOL TABLE
                 gstrecs.
                                                              POINTER TO OWNING CLUSTER DESCRIPTOR
                                  : ref block [, byte],
: ref block [, byte],
                 ownelu
                                                               AND IT'S FILE DESCRIPTOR BLOCK
                 ownfdb
                                  : ref block [, byte],
                                                              POINTER TO CREATED CLUSTER DESCRIPTOR
                 cludesc
                                  ref block [, byte],
                                                              POINTER TO CURRENT ISD IN HEADER
                 curhdrisd
                                  : ref block [, byte],
: ref block [, byte],
                                                              POINTER TO CURRENT ISD BEING BUILT
                 curisd
                                                              POINTER TO HEADER PART OF CURRENT ISD BEING BUILT
                 newhdrisd
                                  : ref block [, byte], : vector [2, long],
                                                              POINTER TO FIRST ISECT IN CLUSTER
                 firstisd
```

RFA OF GST

LAST IMAGE VBN + 1

RELATIVE VA OF FIXUP SECTION

SAVED RECORD COUNT WHILE IN OBJPS1

```
213
214
215
                               map
                   0710
                    0711
                               bind
                    0714
                   0716
0717
220
221
222
223
224
225
226
227
228
                   0718
                               cludesc
                               hdrblkcnt
                                                 =
229
230
                   0725
                               nxtisdoff
                   0726
                               maxisdvbn
                                               = 0
23334567890123445678
                   0727
                   0728
                   0730
                   0731
                   0732
0733
                               do begin
                   0734
                                      then
                   0735
                   0736
                   0737
                   0738
                   0739
                                      then
                   0740
                                           begin
                   0741
                   0742
                   0744
249
250
                   0745
                   074<u>6</u>
251
252
253
                   0747
                   0748
                   0749
254
255
                   0750
                   0751
256
257
258
                   0752
0753
                   0754
259
                   0755
260
                   0756
261
                   0757
262
263
                   0758
                   0759
264
265
                   0760
                                            then
                   0761
266
267
268
                   0762
0763
                   0764
                   0765
269
                                            then
```

```
modrfa : ref block [, byte] ;
                                                                   ! POINTER TO BLOCK
        header = lnk$al_rab [rab$l_ubf] : ref block [, byte] ; ! POINTER TO BLOCK BUFFER
if actualcount () eql 0
                                                                   ! IF CALLED WITH NO ARGUMENTS
    blockoffset = 0
                                                                   ! HEADER AT START OF FILE
    blockoffset = .modrfa [rfa$l_vbn] - 1;
                                                                  ! OTHERWISE GET OFFSET,
lnk$gl_shrclstrs = .lnk$gl_shrclstrs + 1;
                                                                   ! COUNT THIS SHAREABLE IMAGE CLUSTER
                                                                     NO CREATED CLUSTER YET
                                                                     MUST BE AT LEAST ONE BLOCK
            = -1 ;
                                                                     NEXT ISD IS ON NEXT BLOCK
                                                                     RESET LAST BLOCK OF IMAGE
                                                                   ! AND SET FOR FIRST BLOCK READ
headerblock = .blockoffset ;
ch$fill (%c'0', 3, curisdseg [1]) :
                                                                   ! INITIALIZE THE ISD NAME SUFFIX
while .nxtisdoff eql -1
                                                                     WHILE THERE ARE MORE
                                                                    HEADER BLOCKS
    if not readnextblock ()
                                                                   ! GET THE NEXT ONE
        signal_stop (lin$_badimghdr,
                                                                  ! AND IF UNSUCCESSFUL, FATAL IMAGE
                     ,lnk$gl_curfil [fdb$q_filename]
    if .headerblock eql (.blockoffset + 1)
                                                                  ! IF THE FIRST
                                                                  ! HAVE SOME VALIDATION TO DO
            VALIDATE IMAGE HEADER
        if .header [ihd$b_imgtype] neq ihd$k_shr
or .header [ihd$w_majorid] neq ihd$k_majorid
                                                                    CHECK IT IS A SHAREABLE IMAGE
                                                                    MAJOR HEADER ID MUST MATCH
        or (.(header [ihd$w_minorid])<0, 8, 0> eql (ihd$k_minorid and %x'FF')
            .(header [ihd$w_minorid])<8, 8, 0> gtru (ihd$k_minorid and %x'FF00')/256
        ,ihd$k_maxlength
                          = .header [ihd$b_hdrblkcnt] - 1) lss 0
                                                                      CONTAIN PATCH AREA. O TO
        or (hdrblkcnt
        or (symdbgdatdsc = .header + .header [ihd$w_symdbgoff])
gequ (.header + .header [ihd$w_size])
or (gstrecs = .symdbgdatdsc [ihs$w_gstrecs]) [ssu 3
or (gstvbn [0] = .symdbgdatdsc [ihs$l_gstvbn])
lequ (.hdrblkcnt + 1)
                                                                     127 MORE BLOCKS. GET THE
                                                                     GST DESCRIPTOR WHICH MUST BE CONTAINED
                                                                     IN HEADER. MUST BE AT LEAST 3 RECORDS
                                                                    ! AND MUST BE BEYOND THE HEADER BLOCKS
            ! ANY ABOVE NOT TRUE, FATAL IMAGE
                                                                    ! HEADER ERROR
        if not (lnk$gl_curclu [clu$v_pic] = .header [ihd$v_picimg]) ! EXTRACT THE PIC BIT AND IF NON-PIC
```

```
VQ
```

```
8
                                                                         16-Sep-1984 00:30:18
14-Sep-1984 12:40:34
LNK PROCSHRIM
                                                                                                     VAX-11 Bliss-32 V4.0-742
                                                                                                                                               Page
V04=000
                                                                                                     [LINKER.SRC]LNKPROSHR.B32:2
   270
271
273
273
274
275
276
277
                  0766
                  0767
                                         lnk$gl_ctlmsk [lnk$v_picimg] = false ;
                                                                                                     ! THIS IMAGE IS ALSO NON-PIC
                  0768
                  0769
                                             .lnk$gl_curclu [clu$v_usrbased] and not .lnk$gl_curclu [clu$v_intclu]
                                                                                                     ! IF NON-PIC IMAGE BASED BY USER
                                                                                                     ! AND NOT AN INTERNALLY CREATED CLUSTER
                                         then
                                              begin
                                                       (lin$_imgbased, 1
,lnk$gl_curfil [fdb$q_filename]
                                                                                                        THEN THAT'S AN ERROR, BECAUSE WE CAN'T
                                              signal
   278
279
                  0774
                                                                                                        RELOCATE IT
                  0775
   0776
                                              ink$gl_curclu [clu$v_usrbased] = false ;
ink$gl_curclu [clu$l_usrbase] = 0 ;
                  0777
                  0778
                                              end :
                  0779
                                         end
                  0780
                                     else
                  0781
                                         if .lnk$gl_curclu [clu$v_usrbased]
                                                                                                     ! BUT IF CLUSTER BASED BY OPTION
                  0782
                  0783
                                              lnk$gl_ctlmsk [lnk$v_picimg] = false ;
                  0784
                                         .ink$gl_ctlmsk [lnk$v_shr] and not .ink$gl_ctlmsk [lnk$v_ubased] and not .ink$gl_curclu [clu$v_pic]
                  0785
                                                                                                     ! IF CREATING A SHAREABLE IMAGE
                  0786
                                                                                                        AND IMAGE NOT BASED BY USER
                  078/
                                                                                                       AND THIS IMAGE JUST MADE IT NON-PIC
                  0788
                                     then
                                         signal (lin$_nonpicimg, 1 _____lnk$gl_curfil [fdb$q_filename]
                  0789
                                                                                                     ! THEN TELL USER ABOUT IT (INFO)
                  0790
                  0791
                  0792
0793
                                     if (lnk$gl_curclu [clu$v_matchctl] =
                                                                                                     ! EXTRACT THE GLOBAL SECTION MATCH CONTROL
                                              .header [ihd$v_matchctl]) eql isd$k_matnev
                  0794
                  0795
                                         lnk$gl_curclu [clu$v_copy] = true ;
                                                                                                     ! MAKING PRIVATE COPY IF MATCH NEVER
                  0796
                  0797
                                     isectident = .header [ihd$l_ident];
                                                                                                     ! NOW THE IDENT TO WHICH IT APPLIES
                                     iafva = 0:
                  0798
                  0799
                  0800
                                     if (.header + .header [ihd$w_activoff])
                  0801
                                         gtru header [ihd$l_iafva]
                                                                                                     ! IF IMAGE HAS FIXUP VA OFFSET
                  0802
                                     then
                  0803
                                         begin
                                         iafva = .header [ihd$l_iafva];
                  0804
                                                                                                     ! THEN PICK IT UP
                  0805
                                         if .iafva eql 0
                  0806
                                         then
                  0807
                                              lnk$gl_curclu [clu$v_prefixup] = true ;
                                                                                                    ! FIXVA THERE, BUT O, SO ASSUME NOT THERE
                                         end
                  0808
                  0809
                                     else
                  0810
                                         lnk$gl_curclu [clu$v_prefixup] = true ;
                                                                                                     ! NO FIXUP VA, FLAG OLD IMAGE
   315
                  0811
   316
317
                  0812
0813
                                     lnk$gl_imgrecs = .lnk$gl_imgrecs + .hdrblkcnt + 1 ;
                                                                                                     ! COUNT HEADER BLOCKS AS RECORDS
                                                                                                     ! POINT TO FIRST ISD IN HEADER
                                     curhdrisd = .header + .header [ihd$w_size] ;
   318
                  0814
   319
                  0815
   320
321
322
323
324
325
326
                  0816
0817
                                         CHECK GSMATCH OF IMAGE AGAINST GSMATCH FOUND IN SHAREABLE IMAGE
                                         LIBRARY IF THIS IMAGE FOUND IN A LIBRARY
                  0818
                  0819
                                             .lnk$gl_curclu [clu$l_gsmatch] neq 0
                                                                                                     ! IF FOUND IN SHAREABLE IMAGE LIB
                                        and .lnk$gl_curclu [clu$l_gsmatch] neq .isectident ! AND IMAGE/LIBRARY MISMATCH
                  0820
```

0821

0822

then

begin

```
8
                                                                           16-Sep-1984 00:30:18
14-Sep-1984 12:40:34
LNK PROCSHRIM
                                                                                                        VAX-11 Bliss-32 V4.0-742
                                                                                                                                                   Page
V04=000
                                                                                                        [LINKER.SRC]LNKPROSHR.B32:2
                                                    libident = lnk$gl_curclu [clu$l_gsmatch] : block [, byte],
imgident = isectident : block [, byte];
   bind
                   08245
08245
08278
08278
08331
08331
08334
08334
                                                   ! WARN USER ABOUT IDENT PROBLEM
..imgident [gmt$b_majorid]..imgident [gmt$b_minorid]
.lnk$gl_curfil [fdb$q_filename]..libident [gmt$b_majorid]..libident [gmt$b_minorid]
.lnk$gl_curfil [fdb$q_libnamdsc]
);
                                          signal (lin$_idmismch, 6
                                          end;
                                     end
                                                                                                        ! ALL DONE WITH FIRST BLOCK
                                 else
                                      curhdrisd = .header :
                                                                                                        ! OTHER BLOCKS ARE ALL ISD
                   0836
   341
                   0837
                                    PROCESS IMAGE SECTION DESCRIPTORS
   342
343
                   0838
                   0839
                                 while (nxtisdoff = .(curhdrisd [isd$w_size])<0, 16, 1>) gtr 0 ! WHILE MORE ISD'S ON THIS BLOCK
   344
                   0840
   345
                   0841
                                      if .curhdrisd [isd$b_type] neq isd$k_usrstack
                                                                                                        ! BEGIN LOOP THAT PROCESSES EACH
                  0842
   346
                                      then
   347
                                                                                                        ! IGNORING STACK SECTION
   348
                   0844
                                                                                                        ! IF THIS IS COPY ALWAYS SECTION
                                           if .curhdrisd [isd$v_copyalway]
   349
                   0845
                                           then
   350
                                               0846
                                                                                                        ! THEN ISSUE MESSAGE AND GIVE UP NOW
   351
                   0847
   352
353
                   0848
                   0849
   354
                  0850
   355
                  0851
                                          if .curhdrisd [isd$v_gbl]
                                                                                                           ! IF GLOBAL ISECT
   356
                  0852
                                           then
   357
                  0853
                                               beain
                                                                                                           ! THEN CHECK FROM SAME SHAREABLE IMAGE
   358
                  0854
                                                         found.
                                               local
   359
                  0855
                                                         shrdesc : block [dsc$c_s_bln, byte] ;
   360
                  0856
                                               bind
   361
                  0857
                                                         gblnam = curhdrisd [isd$t_gblnam] : vector [, byte] ;
   362
                  0858
                                               shrdesc [dsc$a_pointer] = gblnam [1];
shrdesc [dsc$w_length] = .gblnam [0] - suffix_size; ! FIND LENGTH OF GLOBAL SECTION
! SECTION NAME IN ISECT DESCRIPTOR
   363
                  0859
   364
                  0860
   365
                   0861
                  0862
   366
                                               if .cludesc eql 0
                                                                                                              IF NO CREATED CLUSTERS YET
                                               or not chaeql (.shrdesc [dscaw_length], gblnam [1] ! OR THIS IS FOR A DIFFERENT CLUSTER
   367
                   0863
   368
                   0864
                                                                ,.shrdesc [dsc$w_length], cludesc [clu$t_name]
   369
                   0865
   370
                   0866
                                               then
   371
                   0867
   372
373
                   0868
                                                    lnkSaddimage (shrdesc, 0, cludesc, found) ;
                                                                                                            ! ADD IMAGE TO THE CLUSTER LIST
                   0869
                                                    if .cludesc neg 0 and not .found
                   0870
                                                    then
   375
                   0871
                                                        cludesc [clu$v_prefixup] = .lnk$gl_curclu [clu$v_prefixup] ;
! COPY PREFIXUP FLAG FROM PARENT CLUSTE
   376
                  0872
0873
   377
   378
                   0874
                                                                                                              ! SET OWNING CLUSTER DESCRIPTOR
                                                         cludesc [clu$l_ownclu] = .lnk$gl_curclu ;
                   0875
                  0876
   380
                                                         if not .lnk$gl_curclu [clu$v_pic]
                                                                                                              ! IF THIS IMAGE IS NON-PIC
                   0877
    381
                                                         then
    382
   383
                   0879
                                                             cludesc [clu$v_based] = true ;
                                                                                                                           ! FLAG CLUSTER AS BASED
```

VO

```
8
                                                                         16-Sep-1984 00:30:18
14-Sep-1984 12:40:34
LNK PROCSHRIM
                                                                                                    VAX-11 Bliss-32 V4.0-742
                                                                                                                                             Page
V04=000
                                                                                                    LLÎNKER. SRCJLNKPROSHR. B32:2
                                                                                      (if .curhdrisd [isd$v_based]
  then .curhdrisd [isd$v_vpg]^9
  else .lnk$gl_curclu [clu$l_base] +
        .lnk$gl_curclu [clu$l_cluoff]
                  0880 10
   384
385
                                                           cludesc [clu$l_base] = (if
                  0881 10
                  0882
0883
   386
                       10
   387
                        10
   388
                  0884
                                                           lnk$gl_curclu [clu$l_cluoff] = .lnk$gl_curclu [clu$l_cluoff] +
.curhdrisd [isd$w_pagcnt]*512;
   389
                  0885
   390
                  0886
   391
392
393
                  Ŏ887
                                                           end:
                  0888
                                                      end
                  0889
                                                  else
   394
395
                  0890
                                                      begin
                  0891
                                                       if (.lnk$gl_curclu [clu$v_based]
                                                                                                             ! IF THIS CLUSTER IS BASED
   396
397
                  0892
                                                                and not
                  0893
                                                           .lnk$gl_curclu [clu$v_pic]
   398
                  0894
   399
                  0895
                                                           .ink$gl_curclu [clu$v_usrbased]
   400
                  0896
                                                      then
   401
                  0897
   402
                  0898
                                                           ownclu = .cludesc [clu$l_ownclu] ;
                                                                                                             ! GET OWNING CLUSTER POINTER
   403
                  0899
   404
                  0900
                                                           if .ownclu neg 0
   405
                  0901
                                                           then
   406
                  0902
                                                                lnk$gl_curclu [clu$l_cluoff] = .lnk$gl_curclu [clu$l_cluoff] +
   407
                  0903
                                                                                                    .curhdrisdEisd$w_pagcnt]*512 ;
   408
                  0904
   409
                  0905
                                                           if .ownclu neg 0
                                                                                                             ! IF THERE IS AN OWNING CLUSTER
                  0906
   410
                                                                and
                  0907
   411
                                                                .ownclu [clu$v_based]
                                                                                                             ! WHICH IS ALSO BASED
   412
                  0908
                  0909
                                                                .cludesc [clu$l_base] neq .curhdrisd [isd$v_vpg]^9
   414
                  0910
                                                                                                               AND WANTS THIS CLUSTER AT A
                  0911
   415
                                                                                                               DIFFERENT PLACE
   416
                  0912 9
0913 10
                                                           then
                                                                begin
                                                               418
                  0914 10
                                                                                                             ! GET FIRST FILE DESCRIPTOR BLOCK
   419
                  0915 10
   0916 10
                  0917 10
                  0918 10
                  0919 10
                                                                         ,lin$_noimgfil
                  0920 10
                  0921 10
                                                                lnk$gl_ctlmsk [lnk$v_image] = false ; ! DON'T MAKE A NON-RUNNABLE IMAGE
                 0922 10
0923 9
0924 10
                                                               end
                                                           else
                  0925 10
                                                                if not .lnk$gl_curclu [clu$v_usrbased]
                  0926 10
0927 11
                                                                then
                                                                    begin
                  0928 11
                                                                    if not .cludesc [clu$v_based]
                                                                                                             ! IF CLUSTER NOT ALREADY BASED
                  0929 11
                  0930 11
                                                                         lnk$gw_shriscts = .lnk$gw_shriscts - .cludesc [clu$l_nisects] ;
                  0931 11
                  0932 11 0933 11
                                                                    cludesc [clusy_based] = true ;
                                                                                                             ! FLAG AS BASED
```

end;

end:

end

0934 10

0935

0936

440

cludesc [clu\$l_base] = .curhdrisd [isd\$v_vpg]^9;

VÖ

```
LNK PROCSHRIM
                                                                            16-Sep-1984 00:30:18
14-Sep-1984 12:40:34
                                                                                                         VAX-11 Bliss-32 V4.0-742
V04=000
                                                                                                         [LINKER.SRC]LNKPROSHR.B32:2
                                                         end:
                  0938
0939
   442
                                                    end
                                               else
   444
                   0940
   445
                   0941
                                                     if .lnk$gl_curclu [clu$v_based] or .ink$gl_curclu [clu$v_usrbased]
                  0942
0943
   446
                                                         | Ink$gl_curclu [clu$l_cluoff] = .lnk$gl_curclu [clu$l_cluoff] +
| curhdrisd [isd$w_pagcnt] * 512 :
   447
                   0944
   448
                   0945
   449
                  0946
0947
   450
455
453
455
456
457
459
                                                    end:
                                               end
                   0948
                   0949
                   0950
                                           if not .curhdrisd[isd$v_gbl]
                   0951
                                           then
                  0952
                                               begin
                                                lnk$alloblk (isd$c_size, curisd) ;
                                                                                                                     ALLOCATE A DESCRIPTOR
                                               curisd [isl$l_nxtisd] = 0 ;
curisd [isl$l_bufadr] = 0 ;
curisd [isl$l_bufend] = 0 ;
curisd [isl$l_cludsc] = .lnk$gl_curclu ;
newhdrisd = curisd [isl$t_hdrisd] ;
                  0954
0955
                                                                                                                     CURRENT IS LAST
                                                                                                                     NO BUFFER FOR IT YET
                  0956
0957
   460
                                                                                                                     SET POINTER TO CLUSTER DESCRIPTOR
   461
   462 463
                   0958
                                                                                                                     POINT TO PART DESTINED FOR HEADER
                                               ch$copy (.curhdrisd [isd$w_size], o, curhdrisd [isd$w_size], o
                   0959
   464
                   0960
                                                                                                                   ! COPY THE ISD FROM THE
                  0961
0962
0963
   465
                                                            isd$k_maxlenglbl, curisd [isl$t_hdrisd]
                                                                                                                   ! HEADER TO DESCRIPTOR O FILLED
   466
   467
                                                                                                                   ! IF THIS IS THE FIRST
                                               if .lnk$gl_curclu [clu$l_fstisd] eql 0
                  0964
   468
                                               then
                  0965
   469
470
                  0966
0967
                                                    if .lnk$gl_curclu [clu$v_usrbased]
                                                                                                                   ! IF BASED BY USER
   471
                                                    then
  472
                  0968
                                                         begin
                  0969
                                                         if .lnk$gl_curclu [clu$v_based]
                                                                                                                   ! IF CLUSTER IS ALSO BASED
   474
                  0970
   475
                  0971
                                                             .lnk$gl_curclu [clu$l_base] neq .lnk$gl_curclu [clu$l_usrbase]
   476
                  0972
                                                         then
   477
                  0973
                                                              begin
                                                             478
                  0974
   479
                  0975
   480
                  0976
                   0977
   481
   482
                   0978
                                                                         lin$_noimgfil
   483
                   0979
   484
                   0980
                                                              lnk$gl_ctlmsk [lnk$v_image] = false ;
   485
                   0981
   486
                   0982
   487
                   0983
                                                         ink$gl_curclu [clu$l_base] = .lnk$gl_curclu [clu$l_usrbase];
ink$gl_curclu [clu$l_usrbase] = 0;
   488
                   0984
   489
                   0985
                                                         lnk$ğl_curclu [clu$v_based] = true :
   490
                   0986
                                                         end
   491
                   0987
   492
493
                   0988
                                                         begin
                   0989
                                                         if .lnk$gl_curclu [clu$v_based]
                                                                                                                   ! IF BASED DUE TO ANOTHER IMAGE
   494
                                                                                                                     BASING IT AND IT TURNED OUT TO
                   0990
                                                              and not
   495
                                                                                                                   ! BE NON-PIC
                   0991
                                                             .lnk$gl_curclu [clu$v_pic]
   496
                                                         then
                   0993
   497
```

begin

LN LN

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8
LNK PROCSHRIM
                                                                   16-Sep-1984 00:30:18
                                                                                           VAX-11 Bliss-32 V4.0-742
                                                                                                                                 Page 10
V04=000
                                                                  14-Sep-1984 12:40:34
                                                                                            [LINKER.SRC]LNKPROSHR.B32:2
                                                      if .lnk$gl_curclu [clu$l_base] neq .newhdrisd [isd$v_vpq]^9
   499
                0995
                                                      then
                0996 10
0997 10
   500
                                                          begin
                                                          501
   502
503
                0998
                0999
   504
                1000
   505
                1001
                1002
   506
   507
                                                                    lin$_nōimgfil
   508
                1004
   509
                1005
                                                          lnk$gl_ctlmsk [lnk$v_image] = false ;
   510
                1006
  511
                1007
                                                      end
  512
513
                1008
                                                 else
                1009
                                                      if not .lnk$gl_curclu [clu$v_pic]
  514
                1010
                                                                                                    ! THEN EXTRACT BASE VPN
  515
                1011
  516
517
                1012
                                                          ink$gl_curclu [clu$l_base] = .newhdrisd [isd$v_vpg]^9;
lnk$gl_curclu [clu$v_based] = true;
  1014
                                                          end :
                1015
                                                  end ;
                1016
                                             firstisd = .newhdrisd :
                                                                                                    ! POINT TO FIRST ISECT IN CLUSTER
                1017
                                             end:
                1018
                1019
                                         lnk$gl_curclu [clu$l_nisects] = .lnk$gl_curclu [clu$l_nisects] + 1;
                1020
                                                                                                    ! COUNT ISECT IN CLUSTER
                1021
                1022
                                             begin
                                             bind
                                                     lastisd = lnk$gl_curclu [clu$l_lstisd]
                                                                                                    ! POINTER TO LAST ISD IN CLUSTER
                1024
                                                             : ref block [, byte];
                1025
                                             lastisd [isl$l_nxtisd] = .curisd ;
                                                                                                    ! PUT AT END OF LIST
                                                                                                    ! AND MAKE CURRENT THE NEW LAST
                1027
                                             lastisd = .curisd :
                                             end :
                1029
                1030
                1031
                                         if .lnk$gl_curclu [clu$v_pic]
                                                                                                   ! IF A PIC CLUSTER
                1032
                                         then
                1033
                                             begin
                1034
                                             if .newhdrisd eql .firstisd
                                                                                                    ! IF FIRST ISECT THIS CLUSTER
                1035
                1036
                                                  firstisdvpg = .newhdrisd [isd$v_vpg] ;
                                                                                                    ! THEN SAVE VPG OF FIRST ISECT
                1037
                1038
                                                                                                    ! THEN SUBTRACT OUT THE BASE
                                             newhdrisd [isd$v_vpg] = .newhdrisd [isd$v_vpg] -
                1039
                                                                       .firstisdvpg ;
                                                                                                     FOR LATER RE-LOCATION (NEEDED
                1040
                                                                                                    ! FOR OLD IMAGES LINKED @200)
  545
546
547
                1041
                1042
                                             if not .lnk$gl_curclu [clu$v_based]
                                             then lnk$gw_shriscts = .lnk$gw_shriscts + 1 ;
                                                                                                    ! COUNT IT
  548
549
                1044
                1045
  550
551
552
553
                1046
                                         ink$gl_curclu [clu$l_pages] = .lnk$gl_curclu [clu$l_pages] + .newhdrisd [isd$w_pagcnt];
                1047
                                                                                                    ! ACCUMULATE THE PAGES REQUIRED
                1048
                1049
                                         if (ownclu = .lnk$gl_curclu [clu$l_ownclu]) eql 0
                1050
                                         then
```

VC

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8
LNK PROCSHRIM
                                                                   16-Sep-1984 00:30:18
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                                                                                             VAX-11 Bliss-32 V4.0-742
                                                                                                                                  Page
V04=000
                                                                                            [LINKER.SRC]LNKPROSHR.B32:2
                                                                                                                                        (2)
  555
556
557
                                              + lnk$gl_curclu [clu$l_cluoff] = .lnk$gl_curclu [clu$l_cluoff] +
                1052
                                                                                .newhdrisd [isd$w_pagcint]*512
  558
559
                1054
                                              ownclu [clu$l_cluoff] = .ownclu [clu$l_cluoff] + .newhdrisd [isd$w_pagcnt]+512 ;
                1055
                1056
  560
                                          if .curhdrisd [isd$v wrt]
                                                                                                     ! IF SECTION IS WRITEABLE
   561
                1057
  562
563
                1058
                                             .curhdrisd [isd$v_crf]
                                                                                                        AND NOT COPY-ON-REF
                1059
                                          then
  564
                1060
                                              lnk$gl_curclu [clu$v_wrt] = true ;
                                                                                                     ! THEN REMEMBER FOR LNKIMGOUT
   565
                1061
                1062
  566
                                          if .lnk$gl_curclu [clu$v_based]
                                                                                                     ! IF CLUSTER IS BASED THEN FLAG
   567
  568
                1064
                                                                                                     ! IN CLUSTER DESCRIPTOR ALSO
                                              newhdrisd [isd$v_based] = true ;
   569
                1065
  570
                1066
                                         if not .curhdrisd [isd$v_dzro]
  and .curhdrisd [isd$l_vbn] neq 0
                                                                                                       PROVIDED NOT A DEMAND ZERO ISD
  571
                1067
                                                                                                        AND SECTION IS PRESENT IN IMAGE
  572
573
574
                1068
                                          then
                1069
                                              if .curhdrisd [isd$l_vbn] gegu .maxisdvbn
                                                                                                     ! IF IMAGE SECTION GOES BEYOND LAST
                1070
                                              then
  575
576
577
                                                  1071
                                                                                                       BLOCK OF LAST ISECT, THEN
                1072
                                                                                                     ! COMPUTE NEW MAX VBN IN USE
  578
                1074
                                          if not .curhdrisd [isd$v_gbl]
                                                                                                       IF IMAGE SECTION IS NOT
   579
                1075
                                          then
                                                                                                         ALREADY GLOBAL
  580
                1076
                                              begin
  581
582
583
584
                                              local gblsect_namlng ;
                1078
                1079
                                              gblsect_namlng = .lnk$gl_curclu[clu$b_namlng] + suffix_size ;
                1080
  585
586
                1081
                                                  The size of this global isd
                                                                                      length of private isd
                1082
                                                                                    + length of gblsect ident
  587
                1083
                                                                                    + length of gblsect name count byte
  588
                1084
                                                                                    + length of gblsect name
   589
                1085
                1086
   590
                                              newhdrisd [isd$w_size] = isd$k_lenpriv + .gblsect_namlng + 5 ; ! SET SIZE AND
   591
                1087
                                              newhdrisd [isd$v[qbl] = true :
                                                                                                                  MAKE IT GLOBAL NOW
  592
593
                1088
                                                                                                                GLOBAL ISDS
                1089
                                              decr i from 3 to 1
                                                                                                             ! COMPUTE ISD NAME BY
   594
                1090
                                              do begin
   595
                1091
                                                  if (curisdseq [.i] = .curisdseq [.i] + 1) gtru %c'9'
                                                                                                             ! INCREMENTING THE SUFFIX
                1092
   596
   597
                1093
                                                      curisdseq [.i] = %c'0'
   598
                1094
                                                  else
  599
                1095
                                                      exitloop;
  600
                1096
                                                  end
                1097
  601
                1098
  602
                                              (newhdrisd [isd$t_gblnam])<0, 8, 0> = .gblsect_namlng ;
                1099
  603
  604
                1100
                                                                                                       COPY THE CLUSTER
  605
                1101
                                                                                                       NAME CONCATENATED WITH
                1102
                                             606
   607
                                                                                                     ! THE SEQUENTIAL NUMBER
  608
                                                                                                     ! OF THE SECTION AND ZERO
                1104
                1105
   609
  610
                                                                                                     ! FILL THEN SET MATCH CONTROL
                1107
                                              newhdrisd [isd$v_matchctl] = .lnk$gl_curclu [clu$v_matchctl] ;
  611
```

VC

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LNK PROCSHRIM
                                                                    16-Sep-1984 00:30:18
                                                                                             VAX-11 Bliss-32 V4.0-742
                                                                                                                                    Page
V04=000
                                                                    14-Sep-1984 12:40:34
                                                                                             [LINKER.SRC]LNKPROSHR.B32;2
  612
                 1108
                                              newhdrisd [isd$l ident]
                                                                           = .isectident :
                                                                                                      ! AND THE MATCH CONTROL IDENT
                 1109
                                              end:
  614
                 1110
  615
                 1111
                                          if not .curhdrisd [isd$v dzro]
                                                                                                        IF NOT DEMAND ZERO AND
                1112
                                                                                                        SHAREABLE IMAGE TO BE COPIED
  616
                                             and .lnk$gl_curclu [clu$v_copy]
  617
                                             and .curhdrisd [isd$l_vbn] neg 0
                                                                                                        AND SECTION IS PRESENT IN THIS
  618
                1114
                                          then
  619
                                              begin
  620
621
623
623
624
625
627
                1116
                                               if .curhdrisd [isd$w_pagent] gtru .lnk$gl_gsbufdsc [0]
                                                                                                              ! MAXIMIZE THE SIZE OF
                                                                                                              ! BUFFER WE'LL NEED
                 1118
                                                   lnk$gl_gsbufdsc [0] = .curhdrisd [isd$w_pagcnt];
                 1119
                1120
1121
1122
1123
1124
1125
1126
1127
                                          if .iafva neq 0
                                                                                                      ! IF THERE IS A FIXUP SECTION
                                             (.newhdrisd [isd$v_vpg]^9 eql .iafva)
                                                                                                      ! AND THIS IS IT
  628
                                          then
  629
630
                                              beain
                                              lnk$gl_curclu [clu$l_fixisd] = .curisd ;
                                                                                                         THEN REMEMBER IT FOR LATER
  631
                                              newhdrisd [isd$v_fixupvec] = true ;
                                                                                                        FLAG FIXUP SECTION IN ISD
  632
                 1128
                                              end:
                                                                                                      ! UNCONDITIONALLY
  633
                 1129
  634
635
                 1130
                                          lnk$gw_nisects = .lnk$gw_nisects + 1;
                                                                                                      ! COUNT THAT IMAGE SECTION
                 1131
                                                                                                      ! OF LOCAL ISECT
                1132
  636
  637
                                      if (curhdrisd = .curhdrisd + .nxtisdoff) gtru (.header + 510) ! CHECK IT WAS COMPLETELY
  638
                 1134
                                                                                                        CONTAINED BY THE CURRENT BLOCK
  639
                1135
                                           signal_stop (lin$_badimghdr, 1
                                                                                                        IF NOT TRUE, FATAL IMAGE
  640
                1136
                                                        ,lnk$gl_curfil [fdb$q_filename]
                                                                                                       HEADER ERROR
                1137
  641
  642
                1138
                                                                                                      ! END OF ISECTION LOOP
                                          end
                1139
                                     else
                1140
  644
  645
                11;1
                                              IMAGE SECTION WAS A STACK ISD. JUST SKIP IT BUT MAKE SURE IT IS CONTAINED BY THE
                1142
  646
                                              CURRENT BLOCK -- ISSUE ERROR AND QUIT IF NOT
  647
  648
                1144
                                          if (curhdrisd = .curhdrisd + .nxtisdoff) gtru (.header + 510)
  649
                1145
  650
                1146
                                              signal_stop (lin$_badimghdr, 1, lnk$gl_curfil [fdb$q_filename]);
                1147
  651
  652
                1148
                                                                                    ! END OF BLOCK LOOP
                                 end ;
                 1149
                             end :
  654
                1150
                1151
1152
1153
  655
                         if .maxisdvbn gtru .gstvbn [O] or .hdrblkcnt neg O
                                                                                             ! AND THIS SHOULD ALSO POINT TO GST
  656
                                                                                             ! AND NO HEADER BLOCKS REMAIN
  657
                                                                                                       IF EITHER ABOVE NOT TRUE,
                1154
  658
                             signal_stop (lin$_badimghdr, 1, lnk$gl_curfil [fdb$q_filename]);
                                                                                                     ! FATAL IMAGE HEADER ERROR
  659
                1156
1157
                            .lnk$gl_curclu [clu$v_based] and .lnk$gl_defclu [clu$v_based]
  660
                                                                                                      ! IF THIS CLUSTER IS BASED
  661
                                                                                                        AND BASE= IN OPTION FILE
  662
                 1158
                            and .lnk$gl_curclu [clu$l_base] lequ .lnk$gl_defclu [clu$l_base]
                                                                                                      ! AND THIS IMAGE IS BELOW IT
  663
                 1159
                1160
  664
                             signal (lin$_basshrbel,_3, lnk$gl_curfil [fdb$q_filename]
                                                                                                      ! THEN WARN USER SHR IMG
                                      .ink$gl_curclu [clu$l_base], .ink$gl_defclu [clu$l_base] ! BELOW BASE=
  665
                 1161
                1162
  666
  667
                       2 gstvbn [0] = .gstvbn [0] + .blockoffset ;
  668
                                                                                                     ! RELOCATE DOWN FILE IF NECESSARY
```

```
LNK PROCSHRIM
                                                                            16-Sep-1984 00:30:18
                                                                                                        VAX-11 Bliss-32 V4.0-742 [LINKER.SRC]LNKPROSHR.B32;2
                                                                                                                                                   Page 13
V04=000
                                                                           14-Sep-1984 12:40:34
                         2 gstvbn [1] = 0
2 saverecount = .ln
2 lnk$pointobj (ÿst)
                  1165
  669
                                                                                                                    CLEAR THE BYTE OFFSET IN THE RFA
                            saverecount = .lnk$gl_objrecs ;
  670
671
                                                                                                                    SAVE CURRENT RECORD COUNT
                  1166
                  1167
                            lnk$pointobj (gstvbn):
                                                                                                                 POINT TO GST
  672
673
                  1168
                  1169
                            if not lnk$procsobj (gstvbn)
                                                                                                                 ! AND GO PROCESS IT LIKE AN
  674
675
                  1170
                            then
                  1171
1172
1173
1174
1175
1176
                           return false :
                                                                                                                 ! OBJECT RETURNING IF ERROR
  676
677
                           saverecount = .lnk$gl_objrecs - .saverecount ;
                                                                                                                 ! GET NUMBER PROCESSED
  678
679
                            if .saverecount neq .gstrecs
                                                                                                                 ! AND IF NOT CORRECT NUMBER
   580
                            then
  681
                                682
                  1178
  683
                  1179
                           lnk$gl_imgrecs = .lnk$gl_imgrecs + .saverecount ;
return true
                                                                                                                 ! ACCUMULATE RECORD COUNT ! ALL DONE SO RETURN SUCCESS
                         2 return
   684
                  1180
   685
                  1181
                                                                                                                 ! End of LNK$PROCSHRIM
                                                                                        .TITLE LNK_PROCSHRIM
                                                                                        .IDENT \V04-000\
                                                                                        .PSECT $PLIT$,NOWRT,NOEXE,2
             65 6C 69 66 20 73 6E 6F 69 74 70 4F
                                                                      00000 P.AAB:
                                                                                       .ASCII \Options file\
                                                           0000000C
                                                                       0000C P.AAA:
                                                                                       .LONG
                                                                                                12
                                                           00000000
                                                                                       .ADDRESS P.AAB
                                                                      00010
                                                                                        .PSECT SOWNS.NOEXE.2
                                                   30 30 30 SF
                                                                      00000 CURISDSEQ:
                                                                                        .ASCII \_000\
                                                                       00004 HDRBLKCNT:
                                                                                        BLKB
                                                                      00008 HEADERBLOCK:
                                                                                       .BLKB
                                                                                       .PSECT $GLOBAL$,NOEXE,2
                                                                      00000 LNK$GL_GSBUFDSC::
                                                                                       .BLKB 12
                                                                      OOOOC LNK$GL_IMGRECS::
                                                                                       .BLKB 4
                                                                             ISDSC_SIZE ==
HDR$K_FILLCHR ==
IHD$K_SHR ==
IHD$K_ACTIVOFF ==
IHD$K_SYMDBGOFF ==
IHD$K_IMGIDOFF ==
IHD$K_PATCHOFF ==
IHD$K_MAXLENGTH ==
HD$K_MINFILL ==
                                                                                                     88
                                                                                                      168
                                                                              HDRSK_MINFILL ==
                                                                                       .EXTRN LNKSALLOBLK, LNKSALLOCLUSTER .EXTRN LNKSCLOSEFILE, LNKSPOINTOBJ
                                                                                                LNKSADDIMAGE, LNKSPROCSOBJ
LINS_BADIMGHDR, LINS_BASSHRBEL
                                                                                        .EXTRN
                                                                                       .EXTRN
```

VO.

LN

LNK_PROCSHRIM VO4=000			B 9 16-Sep-1984 00:30:18	Page 15 (2)
	00000000	EF 10 AC 50 51 50 50 50 50 50 50 50 50 50 50 50 50 50	0 9A 000BA MOVZBL 16(R0), HDRBLKCNT F D7 000C2 DECL HDRBLKCNT 2 19 000C8 BLSS 9\$ 0 3C 000CA MOVZWL 4(R0), SYMDBGDATDSC 0 C0 000CE ADDL2 R0, SYMDBGDATDSC 0 3C 000D1 MOVZWL (R0), R1 1 C0 00D4 ADDL2 R1, R0	0754 0755 0756
	28	AE 0A A8 03 28 AE	3 C 000DC MOVZWL 10(SYMDBGDATDSC), GSTRECS D1 000E1 CMPL GSTRECS, #3 5 1F 000E5 BLSSU 9\$	0757
	51 00000000	50 04 A8 AE 50 EF 01 51 50	B DO 000E7 MOVL 4(SYMDBGDATDSC), RO DO 000EB MOVL RO, GSTVBN 1 C1 000EF ADDL3 #1, HDRBLKCNT, R1 D D1 000F7 CMPL RO, R1	0758 0759
	7E 00000000G	00 14 01 000000000 8F 00 03	7 1A 000FA BGTRU 10\$ 6 C1 000FC 9\$: ADDL3 #20, LNK\$GL_CURFIL, -(SP) 7 DD 00104 PUSHL #1 8 DD 00106 PUSHL #LIN\$ BADIMGHDR 8 FB 0010C CALLS #3, LIB\$STOP	0762
51 2 58 AO	20 A1 01	50 000000006 00 51 000000006 00 01 03 51 38 51	0 DO 00113 10%: MOVL LNK%GL_CURCLU, RO 0 DO 0011A MOVL HEADER, R1 3 EF 00121 EXTZV #3, #1, 32(R1), R1 1 FO 00127 INSV R1, #3, #1, 88(R0) 1 E8 0012D BLBS R1, 11%	0764
	00000000G 38 59 33 59 7E 00000000G	00 02 A0 02 A0 01 00 14 01 000000006 8F	2 8A 00130 BICB2 #2, LNK\$GL_CTLMSK+2 2 E1 00137 BBC #2, 89(R0), 12\$ 1 E0 0013C BBS #1, 89(R0), 12\$ 3 C1 00141 ADDL3 #20, LNK\$GL_CURFIL, -(SP) 1 DD 00149 PUSHL #1	0767 0769 0770 0774
	00000000G 59	00 03 50 000000000 00 A0 3C A0	5 FB 00151	0776 0777 0764
	07 59 00000000G 28 00000000G 23 00000000G	A0 02 00 02 00 02 00 03	2 E1 00168 11\$: BBC	0781 0783 0785 0786 0787
l.	17 58 7E 00000000G	A0 03 00 14 01 000000006 8F	DD 00198 PUSHL #1 DD 00198 PUSHL #1 DD 0019A PUSHL #1 INS NONPICIMG	0790
59 A1	00000000G 23 A0 03	00 03 51 0000000006 00 50 000000006 00 03 00 05 52 03 52)	0792 0793
	58 38	A1 10 AE 24 A0 20 AE) 88 001C6	0795 0797 0798

SHRIM				C 9 16-Sep-1984 00:30:18 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:40:34 [LINKER.SRCJLNKPROSHR.B32;2	Page 16 (2)
		20	52 02 A0 52 50 53 2C A0 53 07 AE 2C A0	3C 001D2 MOVZWL 2(R0), R2 C0 001D6 ADDL2 R0, R2 9E 001D9 MOVAB 44(R0), R3 D1 001DD CMPL R2, R3 1B 001E0 BLEQU 15\$ D0 001E2 MOVL 44(R0), IAFVA	: 0800 : 0801
		59 52 00000000° 00000000°	A1 01 EF 00000000' EF EF 01 A2 56 50 51 0084 C1	## 168	0804 0805 0810 0812 0813
		38	61 3A AE 61 34 50 00000000 00	D5 0020C TSTL (R1) 13 0020E BEQL 18\$ D1 00210 CMPL (R1), ISECTIDENT 13 00214 BEQL 18\$ D0 00216 MOVL LNK\$GL_CURFIL, R0 9F 0021D PUSHAB 28(R0) EF 00220 EXTZV #0, #24, (R1), -(SP) 9A 00225 MOVZBL 3(R1), -(SP)	0820 0829
7E		61	16 A0 18 00 7E 03 A1 14 A0	9F 0021D PUSHAB 28(R0) EF 00220 EXTZV #0, #24, (R1), -(SP) 9A 00225 MOVZBL 3(R1), -(SP) 9F 00229 PUSHAB 20(R0)	0829
7E	48	AE	18 00 7E 4F AE 06 00000000 8F	EF 0022C EXTZV #0, #24, IMGIDENT, -(SP) 9A 00232 MOVZBL IMGIDENT+3, -(SP) DD 00236 PUSHL #6	0829
		00000000G 1C	00 08 03 56 50 AE 66 03	DD 00238 PUSHL #LIN\$ IDMISMCH FB 0023E CALLS #8, LIB\$SIGNAL 11 00245 BRB 18\$ DO 00247 17\$: MOVL RO, CURHDRISD 32 0024A 18\$: CVTWL (CURHDRISD), NXTISDOFF 14 0024E BGTR 19\$	0738 0834 0839
		FD	8F OR A6 03 03D7	31 00250 BRW 3\$ 91 00253 19\$: (MPB 11(CURHDRISD), #253 12 00258 BNEQ 20\$	0841
		18 14 50 000000006	AE 08 A6 BE 08 00 14 50	31 0025A BRW 57\$ 9E 0025D 20\$: MOVAB 8(CURHDRISD), 20(SP) E1 00262 BBC #8, a20(SP), 21\$ C1 00267 ADDL3 #20, LNK\$GL_CURFIL, RO DD 0026F PUSHL RO DD 00271 PUSHL RO	0844 0848
		0000000G	000000000 8F 00 04 03 14 BE	DD 00273 PUSHL #2 DD 00275 PUSHL #LINS RFLINK FB 0027B CALLS #4, LIB\$STOP E8 00282 218: BLBS @20(SP), 22\$	0851
		4 (4 8 4 8	0149 50 14 A6 AE 01 A0 AE 14 A6 AE 04 51 40 AE	9B 00292 MOVZBW 20(CURHDRISD), SHRDESC A2 00297 SUBW2 #4 SHRDESC	0859 0860
	5D	A1 01	AO 48 AE 03	DO 0029B MOVL CLUDESC, R1 13 0029F BEQL 23\$ 29 002A1 CMPC3 SHRDESC, 1(R0), 93(R1) 12 002AB BNEQ 23\$ 31 002AA BRW 34\$ 9F 002AD 23\$: PUSHAB FOUND	0862
			0102 3C AE 44 AE 7E	31 002AA BRW 34\$ 9F 002AD 23\$: PUSHAB FOUND 9F 002BO PUSHAB CLUDESC 04 002B3 CLRL -(SP)	0868

LN VO

LNK_PROCSHRIM V04=000									9 6-Sep- 4-Sep-	-1984 00:30 -1984 12:40	: 18 : 34	VAX-11 Bliss-32 V4.0-742 [LINKER.SRC]LNKPROSHR.B32;2	Page 17 (2)	
			00000000G	00 50 51 52	54 000000006 58 40	AE 04 00 AE 38	9F B D 9E D 0	002BF		PUSHAB CALLS MOVL MOVAB MOVL	LNKS	ESC LNK\$ADDIMAGE GL_CURCLU, RO 10), R1 ESC, R2	. 0872 . 0869	
59 A2		01 03	54	34 00 A2 61	3C /	AE A1 50	13 E8 F0 D1	00200 00204 0020B 0020F	2/4	BEQL BLBS INSV MOVL BBC	28\$ FOUN 1(R1 R0, #36\$	ID, 28\$), #0, #1, 89(R2) 84(R2) (R1), 25\$; ; 0872 ; 0874 ; 0876	
53	04	0C A6 53	58 14	A2 BE 17 53	20	01 09 00 09	38 E1 EF 78	002E3 002E6 002EA 002EF 002F5	25\$:	BRW BISB2 BBC EXTZV ASHL	#1 ,	88(R2) @20(SP) 26\$ #23, 4(CURHDRISD), R3 R3, R3	0879 0880 0881	
		53	4C 4C	A0 A2	006	5(C1 D0 31	00305	27 \$:	BRB ADDL3 Movl Brw	32(R R3 35≰	76(RO), R3 76(R2)	0883 0880 0886	
		04 00		04 61 61 6E	54	61 03 0A A2	E9110045	0030B 0030F	29\$:	BLBC BBC BBC MOVL CLRL TSTL	(R1) #3, #10, 84(R R4 OWNC	, 29\$ (R1), 30\$ (R1), 24\$ (2), OWNCLU	0891 0893 0895 0898 0900	
		53	20	53 53 A0	02	6E 0E 54 A6 09	13 06 30 78 00	0031B 0031D 0031F 00323 00327		BEQL INCL MOVZWL ASHL ADDL2	31 \$ R4 2(cu	IRHDRISD), R3 R3, R3 32(R0) 32\$	0903	
		50		60 6E 55 17	5	54 BF 60	E9 (1 E9	0032E 00336	31\$:	BLBC ADDL3 BLBC	R4 #88 (R0)	32\$ OWNCLU, RO , 32\$ /23, 4(CURHDRISD), R3	9905	
53	04	A6 53		17 53 53	4 C	00 09 A 2 45	EF 78	00339 0033f 00343		EXTZV ASHL CMPL	76(R	K3, K3 (2), R3	0909	
		50 50	18	6E AE AE	000000006	08 60 8F 14	13 C1 D0 DD C1			BEQL ADDL3 MOVL PUSHL ADDL3	(R())	OWNCLU, RO , OWNFDB \$ NOIMGFIL OWNFDB, RO	0914 0918	
50	04	7E		00 17	40	50 A2 14 00	DD DD C1 EF	0035E 00361 00369		ADDL3 PUSHL PUSHL ADDL3 EXTZV	R0 76(R #20.	2) INKSGL CURFIL(SP)	0917	
		A6 7E	00000000G	50	5c (09 A2 05	78 9f DD DD FB	0036F 00373 00376		ASHL PUSHAB PUSHL PUSHL	WLIN	#23, 4(CURHDRISD), RÓ RO, -(SP) 2) S_CONFBASADR LIB\$SIGNAL	0916 0918	
		39	0000000G	00 61		01 30	8A 11 E0	00385 00380	325.	CALLS BICB2 BRB BBS	366	LNK\$GL_CTLMSK	0921 0905 0925	
50	04	A6	00000000G 58	08 00 A2 17	58 48	A2 A2 01	E8 48 EF	00392 00396 0039E 003A2		BLBS SUBW2 BISB2 EXTZV	88(R 72(R #1,	(R1), 36\$ 2), 33\$ 2), LNK\$GW_SHRISCTS 88(R2) #23, 4(CURHDRISD), R0	0925 0928 0930 0932 0933	

LNK_PROCSHRIM V04=000					E 9 16-Sep-1984 00:30:18 14-Sep-1984 12:40:34	VAX-11 Bliss-32 V4.0-742 Pag [LINKER.SRC]LNKPROSHR.B32;2	ge 18 (2)
	40	V 2	50	09 10	003AD BRB 36\$), 76(R2)	, 0891
		0C 59 53 20	50 000000006 05 58 A0 53 02 53 A0 03 14	00 (A0 (00 (00 (00 (00 (00 (00 (003AF 34\$: MOVL LNK\$GL 003B6 BLBS 88(R0) 003BA BBC #2,89 003BF 35\$: MOVZWL 2(CURH 003C3 ASHL #9, R3 003C7 ADDL2 R3,32 003CB 36\$: BLBC B20(SP 003CF BRW 57\$	CURCLU, R0 35\$ (R0), 36\$ DRISD), R3 , R3 (R0)), 37\$	0941 0944 0950
		000000006	7E 58 00 5B 44	8F 02 F 02	003D2 3/\$: PUSHAB CURISD 003D5 MOVZBL #88, - 003D9 CALLS #2, LN 003E0 MOVL CURISD 003E4 CLRL (R11)	·(SP) IK\$ALLOBLK), R11	0953 0954
0040 8F	(10	5A 00000000G AB 57 18 66 18	5A (AB (66 AB	003F0 MOVL R10, 1 003F4 MOVAB 24(R11 003F8 MOVC5 (CURHD 003FF	CURCLU, R10 B(R11)), NEWHDRISD PRISD), (CURHDRISD), #0, #64, 24(R11)	0955 0957 0958 0961
	<u>!</u>	52 30	_	03 0008 0008 0008	OOZII BIRC (PI))), R1 R1), 40\$	0963 0966 0969 0971
	7	'E 00000000G	000000000 3C 00 4C 5C 000000006	AA 9	00421 PUSHAB P.AAA 00427 PUSHL 60(R10 0042A ADDL3 #20, L 00432 PUSHL 76(R10 00435 PUSHAB 92(R10 00438 PUSHL #5)) NK\$GL_CURFIL, -(SP)))	0977 0976 0975 0976
		00000000G 00000000G 4C 58	00 00 50 00000000000000000000000000000	08 F 01 8 00 I A0 I	00440 CALLS #8, LT 00447 BICB2 #1, LN 0044E 39\$: MOVL LNK\$GL 00455 MOVL 60(RO) 0045A CLRL 60(RO) 0045D BISB2 #1, 88 00461 BRB 42\$	CONFBASADR B\$SIGNAL iK\$GL_CTLMSK _CURCLU, RO76(RO)	0980 0983 0984 0985
50	04	53 57 50	55 61 17 50 50 40	61 E 03 E 00 E 09 A 53	00465 40%: BLBC (R1), 00466 BBS #3, (R 0046A EXTZV #0, #2 00470 ASHL #9, R0 00474 CMPL 76(R10	418 1), 428 3, 4(NEWHDRISD), RO , RO), RO	0966 0989 0991 0994
		52 18 51 1C	6E 54 6E AE 00000000G AE 4C	08 (62 f	0047A MOVL 84 (R10 0047E ADDL3 #8, OW 00482 MOVL (R2) 00486 PUSHL #LIN\$ 00481 ADDL3 #20, 0 00491 PUSHL R1 00493 PUSHL 76 (R10), OWNCLU INCLU, R2 OWNFDB NOIMGFIL IWNFDB, R1	0997 0998 1002

LNK_PROCSHRIM V04=000			F 9 16-Sep-1984 00:30:18 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:40:34 [LINKER.SRC]LNKPROSHR.B32;2	Page 19 (2)
	7E 00000000G	00 1 5c A	4 C1 00496 ADDL3 #20, LNK\$GL_CURFIL, -(SP) 0 DD 0049E PUSHL R0 A 9F 004A0 PUSHAB 92(R10) 5 DD 004A3 PUSHL #5	: 1001 : 1002 : 1000
	00000000G	000000006 8 00 0 00 0	F DD 004A5 PUSHL #LIN\$ CONFBASADR 8 FB 004AB CALLS #8, LIB\$SIGNAL 1 8A 004B2 BICB2 #1, LNK\$GL CTLMSK	1002 1005 0993
50 04 4C	OE A7 AA	1 61 0 17 0 50 0 61 0 AE 5	1 8A 004B2 BICB2 W1, LNK\$GL_CTLMSK 2 11 004B9 BRB 42\$ 3 E0 004BB 41\$: BBS W3, (R1), 42\$ 0 EF 004BF EXTZV W0, W23, 4(NEWHDRISD), R0 9 78 004C5 ASHL W9, R0, 76(R10) 1 88 004CA BISB2 W1, (R1) 7 D0 004CD 42\$: MOVL NEWHDRISD, FIRSTISD	1009 1012 1013
	30 10	5Ā 00000000G Ó 48 A	0 DO 004D1 43\$: MOVL LNK\$GL_CUŔCLU, R10 A D6 004D8 INCL 72(R10)	1016 1019 1026
	10 04 27 04 30	AE 58 A BE 0 AE 5	A 9E 004E3 MOVAB 88(R10), 4(SP) 3 E1 004E8 BRC #3 34(SP) 45\$	1027 1031 1034
34 AE 04 50 04	A7 A7	17 0 17 0 50 34 A 00 5	O EF 004F3 EXTZV #0, #23, 4(NEWHDRISD), FIRSTISDVPG O EF 004FA 44\$: EXTZV #0, #23, 4(NEWHDRISD), RO F C2 00500 SUBL2 FIRSTISDVPG RO	1036
04 A7	17 50	06 00000000 0 50 02 A	0 F0 00504 INSV R0, W0, W25, 4(NEWHDRISD) E E8 0050A BLBS	1042 1043 1046
	50	AA 5 6E 54 A 0 50 02 A 50 0	A DO 0051C MOVL 84(R10), OWNCLU	1049 1052
	20	AA 5 50 02 A 50 02 O	0 CO 0052A	1051 1054
	50 51 0A 14 05 14	6E 2 61 5 BE 0	0 C1 00538 ADDL3 #32, OWNCLU, R1 0 C0 0053C ADDL2 R0, (R1) 3 E1 00535 /75: RBC #3 230/SR) /85	1056 1058
	04 09 16 14	A7 0 BE 0	1 E0 00544 BBS	: 1060 : 1062 : 1064 : 1066
	24	AE 0C A	6 D5 0055B TSTL 12(CURHDRISD) 1 13 0055E BEQL 50\$ 6 D1 00560 CMPL 12(CURHDRISD), MAXISDVBN A 1F 00565 BLSSU 50\$ 6 3C 00567 MOVZWL 2(CURHDRISD), RO	1067 1069 1072
	24	50 02 A AE 0C B64 79 14 B 50 5C A	O 9E 0056B	1074 1079
	67 08	50 0 50 1 A7 0 51 0	4 CO 00579 ADDL2 W4, GBLSECT NAMLNG 5 A1 0057C ADDW3 W21, GBLSECT NAMLNG, (NEWHORISD) 1 88 00580 BISB2 W1, 8(NEWHORISD) 3 DO 00584 MOVL W3, I	1086 1087 1089

LNK_PROCSI V04=000	HRIM							10	G 9 6-Sep-1 4-Sep-1	984 00:30 984 12:40	: 18 : 34	VAX-11 Bliss-32 V4.0-742 CLINKER.SRCJLNKPROSHR.B32;2	Page 20 (2)
				00000000.Ei	39	0'EF41 52 52 52 0B	9A 06 90 01 18 90	0058F 00591 00599 0059C	51\$:	MOVZBL INCL MOVB CMPI BLEWU	R2, R2, R2,	SDSEQ[I], R2 CURISDSEQ[I] #57	: 1091
OC	AE		00	14 10 00 00 08 50	DE A7 AE 5 AE 1 AA 1	50	F5	005A6 005A9 005AD	52\$:	MOVB SOBGTR MOVB MOVZBL MOVL MOVAB MOVC5	GBLS 92(R GBLS 21(R	CURISDSEQ[I] 18 ECT_NAMLNG, 20(NEWHDRISD) 10), 16(SP) ECT_NAMLNG, 12(SP) 17), 8(SP) 18), 93(R10), #0, 12(SP), 08(SP)	1093 1089 1098 1102 1104 1105
0^	AE		00	00000000 00 08	AE 1 AE 1 EF 0	16 0 AE 0 AE 04 B BE	18	00505		BGEQ ADDL2 SUBL2 MOVC5		SP), 8(SP) SP), 12(SP) CURISDSEQ, #0, 12(SP), @8(SP)	
08	50 A7	04	BE 03 1E 19	10 14 04	03 04 A7 BE BE	0D 50 8 AE 02 04	F F O D O E O E 1	005DD 005E3 005E9 005EE 005F3		EXTIV INSV MOVL BBS BBC	15EU #2, #4.	#3, a4(SP), R0 #4, #3, 8(NEWHDRISD) TIDENT, 16(NEWHDRISD) a20(SP), 55\$ a4(SP), 55\$	1107 1108 1111 1112 1113
00000000	EF	02	A 6	00000000	10 EF 0	14 00 08	05 13 ED 18 30 05	005FB 005FD 00607 00609 00611	55 \$:	TSTL BEQL CMPZV BLEQU MOVZWL TSTL	#0 55 \$ 2(CU IAFV	WHORISD) #16, 2(CURHDRISD), LNK\$GL_GSBUFDSC URHDRISD), LNK\$GL_GSBUFDSC /A	1116 1118 1121
	50	04	A7 50	20	17 50 AE	00 09 50 08	13 EF 78 D1 12	00616 00610 00620 00624		BEQL EXTZV ASHL CMPL BNEQ	#9, R0, 56\$	#23, 4(NEWHDRISD), RO RO, RO IAFVA	1123
			50	09 00000000	AA A7 0000000 56 00 000001F	C AE	D0 88 B6 C0 C1	0062A 0062E 00634 00638	56 \$: 57 \$:	MOVL BISB2 INCW ADDL2 ADDL3	#4.	68(R10) 9(NEWHDRISD) 6GJ_NISECTS SDOFF, CURHDRISD 1, HEADER, RO 1DRISD, RO	1126 1127 1130 1144
			7E	00000000G	00 0000000	17 14 01 06 8F 03	1B C1 DD DD FB	00647 00649 00651 00653	500	CMPL BLEQU ADDL3 PUSHL PUSHL CALLS	#20, #1 #LIN #3,	LNK\$GL_CURFIL, -(SP) SBADIMGHDR LIB\$STOP	1146
			70	50	AE 2 0000000	08	31 D1 1A D5	00668 0066A 00670	59\$:	BRW CMPL BGTRU TSTL BEQL	60\$ HDRB 61\$	SDVBN, GSTVBN	9839 1151
			/t	00000000G	0000000 0000000 50 0000000	03 06 00	DD DD FB	0067C 00682 00689		ADDL3 PUSHL PUSHL CALLS MOVE	#1 #LIN #3, LNK\$	LNK\$GL_CURFIL, -(SP) S_BADIMGHDR LIB\$STOP GL_CURCLU, RO	1154
					31 2A 0000000		E9			BLBC BLBC	LNK\$	0), 62\$ GL_DEFCLU+88, 62\$	1157

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VC LN

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LNK_PROCSHRIM V04=000						10	H 9 6-Sep-1 4-Sep-1	984 00:30 984 12:40	: 18 : 34	VAX-11 Bliss-32 V4.0-742 [LINKER.SRC]LNKPROSHR.B32;2	Page 21 (2)
	000	00000G 0	O 4C	A0	D1	0069B		CMPL	76(R0)), LNK\$GL_DEFCLU+76	; 1158
	75 000	00000G 0	00000000G	A0 20 00 A0	DD DD	006A5		BGTRU PUSHL PUSHL ADDL3	76(R0)		1161 1160
	76 000			03	DD	006B6		PUSHL	#3	LNK\$GL_CURFIL, -(SP)	; 1160
	000	00000G 00 50 Al	_	8F 05 59	DD FB CO	006BE 006C5	62\$:	PUSHL CALLS ADDL2	#5, L1	_BASSHRBEL TB\$SIGNAL OFFSET, GSTVBN	1164
		5	2 0000000000	AE 00 AE	D4 D0	006CC		CLRL MOVL	GSTVBN LNK\$GL	L_OBJRECS, SAVERECOUNT	1164 1165 1166 1167
	000	00000G 0		01	9F FB	00606		PUSHAB CALLS	GSTVBN #1, LN	NK\$POINTOBJ	:
	000	00000G 00	50 0	AE 01	9F FB	006DD 006E0 006E7		PUSHAB CALLS	GSTVBN #1. LN	N NK\$PROCSOBJ	1169
	52 000	000000 00 18 85	Ď	52	C3	006EA 006F2		BLBC SUBL3 CMPL	PAACKE	4\$ ECOUNT, LNK\$GL_OBJRECS, SAVERECOUNT ECOUNT, GSTRECS	1173 1175
	7E 000	000006 00		14	(1 00	006F6 006F8 00700		BEQL ADDL3 PUSHL	#1	LNK\$GL_CURFIL, -(SP)	1177
	000	000000 00	00000000	8F 03 52	DD FB	00702 00708	478.	PUSHL Calls	MLINS M3, L)	BADIMGHDR IB\$STOP	1170
	000	00000' E	Ó	01	00	00716	()) :	ADDL2 MOVL	#1, R	ECOUNT, LNK\$GL_IMGRECS O	; 1179 ; 1180
				50	04 04 04	00719 0071A 0071C	64\$:	RET CLRL RET	RO		1181

; Routine Size: 1821 bytes, Routine Base: \$CODE\$ + 0000

; 686 1182 1

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LNK_PROCSHRIM
V04=000
                                                                                     16-Sép-1984 CO:30:18
14-Sep-1984 12:40:34
                                                                                                                    VAX-11 Bliss-32 V4.0-742
                                                                                                                    [LINKER.SRC]LNKPROSHR.B32:2
   688
689
                     1183
                           1 routine readnextblock =
                                                                                               ! READ NEXT BLOCK IF ANY
                     1184
                             1 !++
                                          THIS ROUTINE IS CALLED TO READ THE NEXT BLOCK OF THE IMAGE HEADER READ ERRORS ARE FATAL. A REQUEST TO READ ANOTHER BLOCK
   690
                     1186
   691
   692
693
                                          WHEN HORBLKONT IS ALREADY ZERO RETURNS FATAL.
                                          HDRBLKENT IS DECREMENTED AFTER EACH READ AND HEADERBLOCK IS
                     1188
   694
                     1189
                                          INCREMENTED BEFORE EACH READ.
   695
                     1190
                     1191
1192
1193
   696
   697
                            è begin
è local
è
   698
   699
700
                     1194
                                          saveusz,
                                          readerror :
                     1196
   701
   702
703
                               if .hdrblkcnt leg 0
                                                                                                         ! IF NO MORE BLOCKS
                     then
   704
                                     return false :
                                                                                                         ! RETURN FAILURE
    705
   706
                                              = .lnk$al_rab [rab$w_usz] ;
                                                                                                          ! SAVE USZ
                               saveusz
    707
                                                                                                          ! SET THE BLOCK TO READ
                               headerblock = .headerblock + 1 ;
    708
                            2 lnk$al_rab [rab$l_bkt] = .headerblock;
2 lnk$al_rab [rab$w_usz] = 512;
   709
                                                                                                          ! SET STARTING VBN
                                                                                                          ! AND SET THE BYTE COUNT
   710
   711
                            if not (readerror = $read (rab = lnk$al_rab))
then
begin
signal (lin$_readerr, 1
,lnk$ql_curfil [fdb$q_filename]
,readerror, .lnk$al_rab [rab$l_stw
   712
                                                                                                          ! ATTEMPT TO READ LIBRARY, USING
   714
                                                                                                          ! BUFFER ALREADY SET UP
   715
   716
                                              ..readerror, .lnk$al_rab [rab$l_stv]
   717
   718
                                    lnk$closefile (.lnk$gl_curfil) ;
lnk$al_rab [rab$w_usz] = .saveusz ;
return false ;
   719
                                                                                                          ! THE MESSAGES AND ATTEMPT TO
   720
721
722
723
724
725
726
                                                                                                         ! RESTORE USZ
                                     end ;
                               hdrblkcnt = .hdrblkcnt - 1;
                                                                                                         ! DECREMENT THE BLOCK COUNT
                     1220
1221
1222
                               lnk$al_rab [rab$w_usz] = .saveusz ;
                               return true :
                                                                                                          ! AND ALL DONE SUCCESSFULLY
   727
                                                                                                          ! END OF READNEXTBLOCK
                             1 end :
                                                                                                  .EXTRN SYSSREAD
                                                                         003C 00000 READNEYTBLOCK:
                                                                                                            Save R2,R3,R4,R5
LNK$GL_CURFIL, R5
HDRBLKCNT, R4
LNK$AL_RAB+32, R3
HDRBLKCNT
                                                                                                                                                                       ; 1183
                                                                                                  .WORD
MOVAB
                                                                           9E 00002
                                                    55 00000000G
                                                    54 000000000
                                                                           9Ē
                                                                               00009
                                                                      EF
                                                                                                  MOVAB
                                                                           9Ē
05
                                                   53 00000000G
                                                                      00
                                                                               00010
                                                                                                  MOVAB
                                                                                                                                                                         1197
                                                                               00017
                                                                      64
                                                                                                  TSTL
                                                                           15
                                                                      4<u>C</u>
                                                                               00019
                                                                                                  BLEQ
                                                                                                            LNKSAL RAB+32, SAVEUSZ
HEADERBLOCK
                                                                           3C
                                                                               0001B
                                                                                                  MÖVZWL
                                                    52
                                                                           D6 0001E
                                                                      A4
                                                                                                  INCL
                                                                                                          HEADERBLOCK, LNK$AL_RAB+56
#512, LNK$AL_RAB+32
LNK$AL_RAB
                                                               04
                                                   A3
63
                                                                           DŎ
                                                                               00021
                                             18
                                                                      A4
                                                                                                  MOVL
                                                                               00026
                                                             0200
                                                                      8F
                                                                           BO
                                                                                                  MOVW
                                                                           ŠĔ.
                                                                               0002B
                                                               E0
                                                                                                  PUSHAB
```

V(

```
LNK_PROCSHRIM
V04=000
                                                                                   16-Sép-1984 00:30:18
14-Sép-1984 12:40:34
                                                                                                                   VAX-11 Bliss-32 V4.0-742 
LLINKER.SRCJLNKPROSHR.B32;2
                                                                                                                                                                  Page 23 (3)
                                                  00
26
                                                                     01
50
A3
50
                                    0000000G
                                                                                                           #1, SYSSREAD
                                                                                                 CALLS
                                                                                                           READERROR, 18
LNK$AL RAB+12
READERROR
                                                                                                 BLBS
                                                               EC
                                                                          ĎĎ
                                                                              00038
                                                                                                PUSHL
                                                                                                                                                                       1212
                                                                                                 PUSHL
ADDL3
                                                                          DĎ
                                                                              0003B
                                                                     14
                                7E
                                                                                                           #20, LNK$GL_CURFIL, -(SP)
                                                   65
                                                                              0003D
                                                                          C1
                                                                                                                                                                       1211
                                                                              00041
                                                                                                 PUSHL
                                                                          DD
                                                       0000000G
                                                                          DD
                                                                              00043
                                                                                                 PUSHL
                                                                                                           #LINS_READERR
                                                                     055050
050650
050650
                                    0000000G
                                                                          FB
                                                                              00049
                                                                                                           #5. LIBSSIGNAL
                                                                                                 CALLS
                                                                                                           LNK$GL_CURFIL
#1, LNK$CLOSEFILE
                                                                                                                                                                       1214
                                                                          DD
                                                                              00050
                                                                                                 PUSHL
                                    0000000G
                                                                              00052
                                                                                                 CALLS
                                                                                                                                                                       1215
1216
1219
1220
1221
                                                                                                           SAVEUSZ, LNK$AL_RAB+32
                                                                          ΒŌ
                                                                              00059
                                                                                                 MOVW
                                                                          11
                                                                              0005C
                                                                                                 BRB
                                                                          D7
                                                                              0005E 1$:
                                                                                                 DECL
                                                                                                           HDRBLKCNT
                                                  63
50
                                                                          BO 00060
                                                                                                 MOVW
                                                                                                           SAVEUSZ, LNK$AL_RAB+32
                                                                          DO
                                                                              00063
                                                                                                 MOVL
                                                                                                           #1, RO
                                                                          04 00066
04 00067 2$:
                                                                                                 RET
                                                                                                           R0
                                                                                                 CLRL
                                                                                                                                                                       1222
                                                                           04 00069
                                                                                                 RET
                                        Routine Base: $CODE$ + 071D
; Routine Size: 106 bytes,
                    1223
1224
1225
   728
729
730
                           1 end
                            Ó eludom
                                                                                                        ! End of module
                                                                                                 .EXTRN LIB$SIGNAL, LIB$STOP
                                                  PSECT SUMMARY
```

LN

Name	Bytes	Attribute	S		
SGLOBALS SOWNS SPLITS SCODES . ABS .	16 12 20 1927 0	NOVEC, WRT, RD, NOEXE, NOSHI NOVEC, WRT, RD, NOEXE, NOSHI NOVEC, NOWRT, RD, NOEXE, NOSHI NOVEC, NOWRT, RD, EXE, NOSHI NOVEC, NOWRT, NORD, NOEXE, NOSHI	LCL, LCL, LCL,	REL, REL, REL, ABS,	CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(0)

Library Statistics

File	Total	- Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	68	0	1000	00:02.0
_\$255\$DUA28:[LINKER.OBJ]DATBAS.L32;1	538	41	7	28	00:00.8

LN V(

0219 AH-BT13A-SE

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